

Title (en)

PROCESS FOR SEED CRYSTAL PREPARATION FOR PHOSPHORIC ACID CRYSTALLIZATION

Publication

**EP 0209919 B1 19890719 (EN)**

Application

**EP 86200718 A 19860425**

Priority

US 73196985 A 19850508

Abstract (en)

[origin: EP0209919A1] The present invention relates to the processing of phosphoric acid by crystallization starting with phosphoric acid and adding relatively large amounts of fine, relatively pure seed crystals to acid which has been cooled to supersaturated conditions. Crystallization thereafter proceeds under conditions which substantially favor growth on the seeds which are added and disfavor secondary nucleation. The present invention particularly describes a seed crystal generator for use in the foregoing process in which relatively high purity phosphoric acid, containing 60% to 66% P<sub>2</sub>O<sub>5</sub> is cooled to a temperature of at least 5 to 10°C below zero and thereafter nucleated under agitation in a crystallizing vessel of short residence time.

IPC 1-7

**C01B 25/234**

IPC 8 full level

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